

# Siming You

## List of Publications by Year in descending order

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66  
papers

3,303  
citations

172457

29  
h-index

149698

56  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3018  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy, economic, and environmental impacts of sustainable biochar systems in rural China. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1063-1091.	12.8	25
2	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1022-1062.	12.8	57
3	Multifunctional superhydrophobic self-cleaning cotton fabrics with oil-water separation and dye degradation via thiol-ene click reaction. <i>Separation and Purification Technology</i> , 2022, 282, 120123.	7.9	31
4	Machine learning methods for modelling the gasification and pyrolysis of biomass and waste. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111902.	16.4	80
5	Assessment of the renewable energy generation towards net-zero energy buildings: A review. <i>Energy and Buildings</i> , 2022, 256, 111755.	6.7	146
6	Nanoneedle-Assembled Copper/Cobalt sulfides on nickel foam as an enhanced 3D hierarchical catalyst to activate monopersulfate for Rhodamine b degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 168-181.	9.4	16
7	Economic and environmental assessment of organic waste to biomethane conversion. <i>Bioresource Technology</i> , 2022, 345, 126500.	9.6	22
8	Trends in mitigation of industrial waste: Global health hazards, environmental implications and waste derived economy for environmental sustainability. <i>Science of the Total Environment</i> , 2022, 811, 152357.	8.0	60
9	Sustainable biochar: A facile strategy for soil and environmental restoration, energy generation, mitigation of global climate change and circular bioeconomy. <i>Chemosphere</i> , 2022, 293, 133474.	8.2	47
10	Waste-to-energy technologies for sustainability: life- cycle assessment and economic analysis. , 2022, , 599-612.		0
11	Carbon-based catalyst for environmental bioremediation and sustainability: Updates and perspectives on techno-economics and life cycle assessment. <i>Environmental Research</i> , 2022, 209, 112793.	7.5	18
12	The waste challenge. , 2022, , 1-8.		1
13	Waste-to-biohydrogen. , 2022, , 47-75.		0
14	System optimization. , 2022, , 213-223.		0
15	System design. , 2022, , 161-187.		0
16	Waste-to-energy. , 2022, , 21-45.		0
17	Waste-to-biochar. , 2022, , 137-160.		0
18	Perspectives of future development. , 2022, , 225-230.		0

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19	Techno-economic feasibility of distributed waste-to-hydrogen systems to support green transport in Glasgow. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13532-13551.	7.1	11
20	Process optimization of biomass gasification with a Monte Carlo approach and random forest algorithm. <i>Energy Conversion and Management</i> , 2022, 264, 115734.	9.2	22
21	A comprehensive artificial neural network model for gasification process prediction. <i>Applied Energy</i> , 2022, 320, 119289.	10.1	21
22	Dynamic Carbon-Neutrality Assessment Needed to Tackle the Impacts of Global Crises. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9851-9853.	10.0	15
23	Life cycle assessment of biodiesel production from rapeseed oil: Influence of process parameters and scale. <i>Bioresource Technology</i> , 2022, 360, 127532.	9.6	29
24	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. <i>Bioresource Technology</i> , 2021, 319, 124213.	9.6	52
25	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	9.6	60
26	Pyrolysis of waste biomass and plastics for production of biochar and its use for removal of heavy metals from aqueous solution. <i>Bioresource Technology</i> , 2021, 320, 124278.	9.6	105
27	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. <i>Environment International</i> , 2021, 149, 106367.	10.0	276
28	Green strategies for sustainable packaging. <i>Science</i> , 2021, 372, 802-802.	12.6	7
29	Are microplastics destabilizing the global network of terrestrial and aquatic ecosystem services?. <i>Environmental Research</i> , 2021, 198, 111243.	7.5	77
30	Enhanced Catalytic Soot Oxidation by Ce-Based MOF-Derived Ceria Nano-Bar with Promoted Oxygen Vacancy. <i>Catalysts</i> , 2021, 11, 1128.	3.5	4
31	Enhanced degradation of ultra-violet stabilizer Bis(4-hydroxy)benzophenone using oxone catalyzed by hexagonal nanoplate-assembled Co3 3-dimensional cluster. <i>Chemosphere</i> , 2021, 288, 132427.	8.2	11
32	Concentrated solar thermochemical gasification of biomass: Principles, applications, and development. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111484.	16.4	64
33	Energy, environmental, economic and social equity (4E) pressures of COVID-19 vaccination mismanagement: A global perspective. <i>Energy</i> , 2021, 235, 121315.	8.8	26
34	Biochar-based adsorbents for carbon dioxide capture: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109582.	16.4	212
35	A critical review on the principles, applications, and challenges of waste-to-hydrogen technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110365.	16.4	83
36	COVID-19: Resource recovery from plastic waste against plastic pollution. <i>Cogent Environmental Science</i> , 2020, 6, .	1.6	14

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37	A two-stage multi-criteria analysis method for planning renewable energy use and carbon saving. Energy, 2020, 199, 117475.	8.8	21
38	Life cycle assessment of bio-based levoglucosan production from cotton straw through fast pyrolysis. Bioresource Technology, 2020, 307, 123179.	9.6	27
39	Life cycle assessment and net present worth analysis of a community-based food waste treatment system. Bioresource Technology, 2020, 305, 123076.	9.6	41
40	Microbial degradation of dyes: An overview. Bioresource Technology, 2020, 314, 123728.	9.6	306
41	Co-gasification of digestate and lignite in a downdraft fixed bed gasifier: Effect of temperature. Energy Conversion and Management, 2020, 213, 112798.	9.2	23
42	Economic analysis of the routes for fulfilment of net-zero energy buildings (NZEBS) in the UK. Energy Procedia, 2019, 158, 3541-3546.	1.8	8
43	Township-based bioenergy systems for distributed energy supply and efficient household waste re-utilisation: Techno-economic and environmental feasibility. Energy, 2019, 181, 455-467.	8.8	31
44	Optimal design of negative emission hybrid renewable energy systems with biochar production. Applied Energy, 2019, 243, 233-249.	10.1	60
45	Techno-economic analysis of geopolymers production from the coal fly ash with high iron oxide and calcium oxide contents. Journal of Hazardous Materials, 2019, 361, 237-244.	12.4	46
46	On the Carbon Abatement Potential and Economic Viability of Biochar Production Systems. , 2019, , 385-408.		3
47	Biomass gasification for syngas and biochar co-production: Energy application and economic evaluation. Applied Energy, 2018, 209, 43-55.	10.1	146
48	Towards practical application of gasification: a critical review from syngas and biochar perspectives. Critical Reviews in Environmental Science and Technology, 2018, 48, 1165-1213.	12.8	64
49	Particulate emission from the gasification and pyrolysis of biomass: Concentration, size distributions, respiratory deposition-based control measure evaluation. Environmental Pollution, 2018, 242, 1108-1118.	7.5	18
50	On the temporal modelling of solar photovoltaic soiling: Energy and economic impacts in seven cities. Applied Energy, 2018, 228, 1136-1146.	10.1	65
51	A comparison of PM exposure related to emission hotspots in a hot and humid urban environment: Concentrations, compositions, respiratory deposition, and potential health risks. Science of the Total Environment, 2017, 599-600, 464-473.	8.0	38
52	Life cycle assessment of a sewage sludge and woody biomass co-gasification system. Energy, 2017, 137, 369-376.	8.8	52
53	Variation of household electricity consumption and potential impact of outdoor PM2.5 concentration: A comparison between Singapore and Shanghai. Applied Energy, 2017, 188, 475-484.	10.1	23
54	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. Applied Energy, 2017, 208, 495-510.	10.1	61

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55	Co-gasification of woody biomass and chicken manure: Syngas production, biochar reutilization, and cost-benefit analysis. <i>Energy</i> , 2017, 139, 732-742.	8.8	76
56	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , 2017, 246, 242-253.	9.6	263
57	Statistical Analysis of Fine Particle Resuspension from Rough Surfaces by Turbulent Flows. <i>Aerosol and Air Quality Research</i> , 2017, 17, 843-856.	2.1	6
58	Toward Understanding Drug Release From Biodegradable Polymer Microspheres of Different Erosion Kinetics Modes. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1934-1946.	3.3	5
59	On the association between outdoor PM2.5 concentration and the seasonality of tuberculosis for Beijing and Hong Kong. <i>Environmental Pollution</i> , 2016, 218, 1170-1179.	7.5	75
60	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. <i>Bioresource Technology</i> , 2016, 218, 595-605.	9.6	105
61	Experimental investigation and modelling of human-walking-induced particle resuspension. <i>Indoor and Built Environment</i> , 2015, 24, 564-576.	2.8	26
62	A Risk Assessment Scheme of Infection Transmission Indoors Incorporating the Impact of Resuspension. <i>Risk Analysis</i> , 2015, 35, 1488-1502.	2.7	2
63	A New Turbulent-Burst-Based Model for Particle Resuspension from Rough Surfaces in Turbulent Flow. <i>Aerosol Science and Technology</i> , 2014, 48, 1031-1042.	3.1	5
64	Particle concentration dynamics in the ventilation duct after an artificial release: For countering potential bioterrorist attack. <i>Journal of Hazardous Materials</i> , 2014, 267, 183-193.	12.4	10
65	Modeling and Experiments of the Adhesion Force Distribution between Particles and a Surface. <i>Langmuir</i> , 2014, 30, 6808-6818.	3.5	22
66	Mathematical Models for the van der Waals Force and Capillary Force between a Rough Particle and Surface. <i>Langmuir</i> , 2013, 29, 9104-9117.	3.5	83